

# 2023 Manufacturing Industries

October 2023



## Manufacturing

Manufacturing is a major component of Missouri's \$389.93 billion economy, representing 12.4 percent (\$48.35 billion) of the 2022 total Gross State Product (GSP) in current dollars. Nationally, manufacturing contributed 11 percent to total GDP. The compound annual growth rate (CAGR) over the past five years in Missouri's manufacturing GSP averaged 5.5 percent; nationally, the CAGR was 4.9 percent.

Manufacturing accounts for 11.6 percent of the state's private sector employment, with 282,255 jobs across 7,636 establishments. The industry has added 16,392 jobs since 2017, growing 6.2 percent over five years. This is more than double the 2.8 percent national growth rate over the same period. In 2020, Missouri's manufacturing sector lost 10,652 jobs during the pandemic, reducing manufacturing employment by 3.4 percent, whereas, nationally, the sector lost 692,678 jobs, a reduction of 5.4 percent.

Manufacturing wages continue to grow statewide and nationally. Missouri's 2022 manufacturing payroll totaled \$19.1 billion, with an average annual wage of \$67,573. This is higher than the state's overall private sector wage of \$60,159.

### Manufacturing

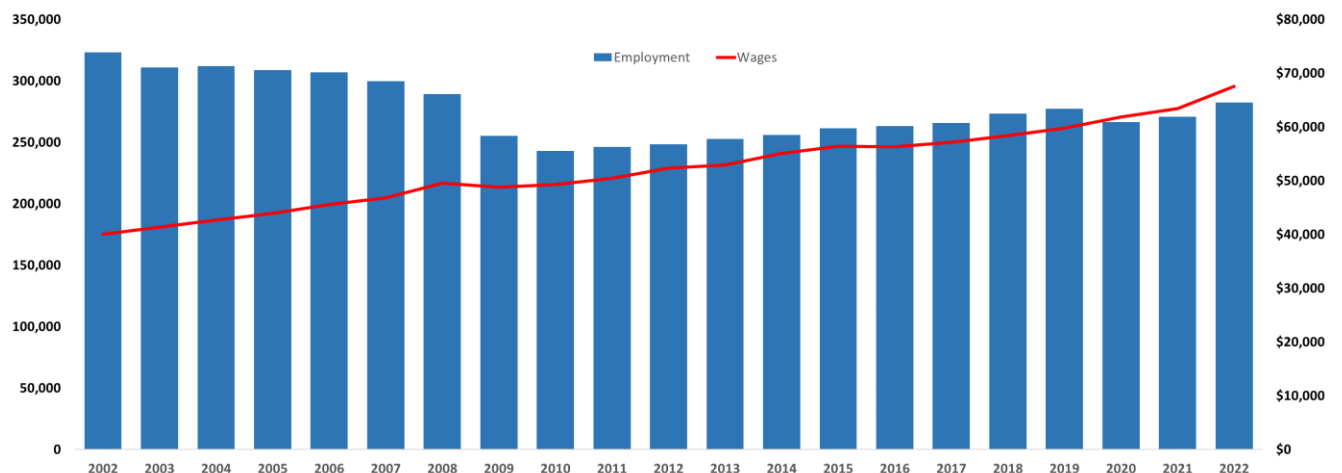
By the Numbers:

282,255  
Employment

12.4 Percent  
Total GSP Share

\$67,573  
Average Wage

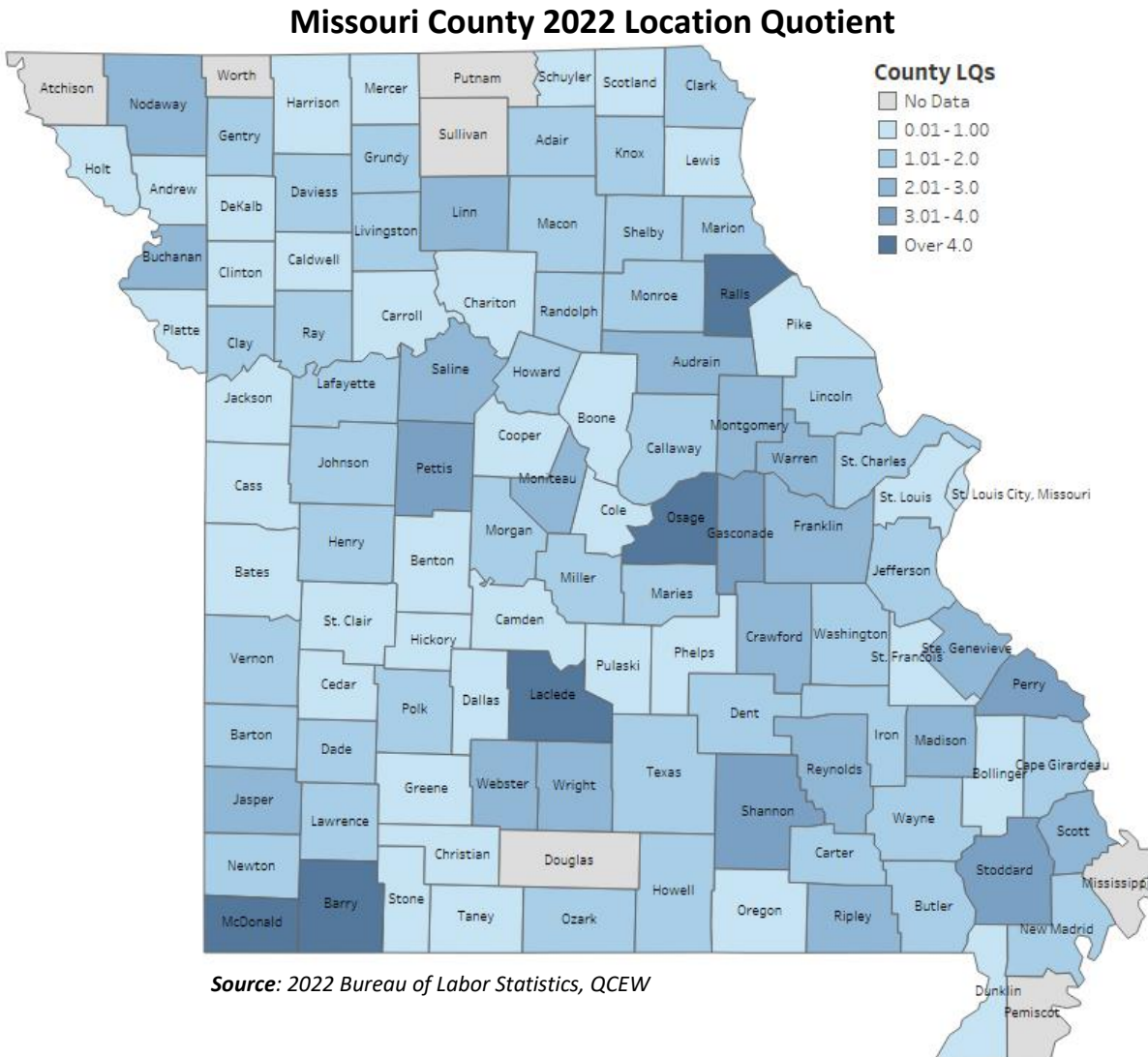
Missouri Manufacturing Employment and Wages  
2002 to 2022



**Source:** 2022 Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW)

## Location Quotient Analysis

Location Quotient (LQ) compares the regional share of an industry to the national share to indicate the level of concentration of an industry in an area. An LQ over 1.0 indicates sectors of employment concentration. Missouri, with an LQ of 1.18 for manufacturing, has a greater share of its workers employed in the sector than the nation averages as a whole. Sixty-one percent, or 70 out of Missouri's 115 counties, have an LQ over 1.0, demonstrating a greater specialization in manufacturing compared to the nation.

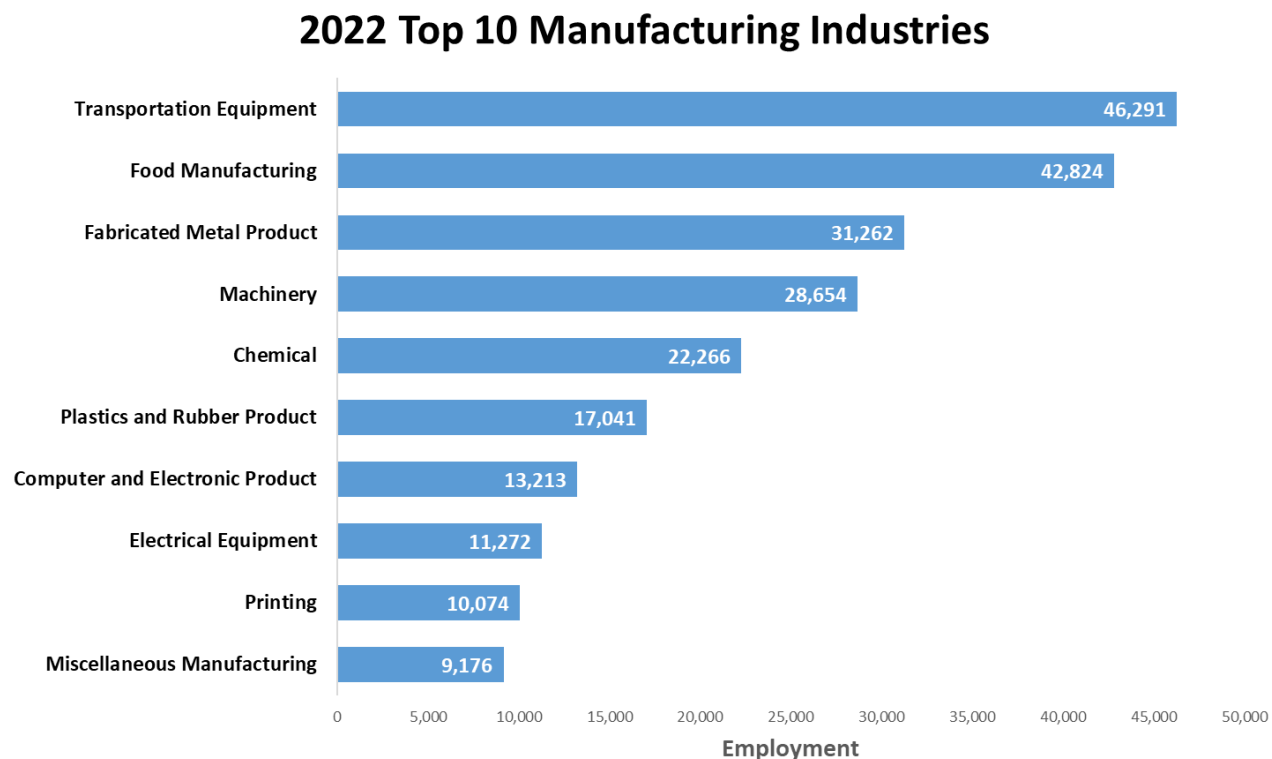


## Economic Contribution

Manufacturing industries make a significant contribution to the Missouri economy, directly and indirectly. Manufacturing's contribution to the Missouri economy is measured in terms of jobs created, incomes earned, and value-added. Value-added, a measure of industry sales minus production costs, refers to an industry's share of Gross State Product (GSP).

Missouri had an estimated 7,636 manufacturing establishments in 2022 that directly employed 282,255 workers, providing approximately \$19.1 billion in payroll and an 11.6 percent share of Missouri's total GSP.

*Transportation Equipment Manufacturing* topped employment in the manufacturing industries with 46,291 employees, followed by *Food Manufacturing* (42,824), *Fabricated Metal Product Manufacturing* (31,262), *Machinery Manufacturing* (28,654), and *Chemical Manufacturing* (22,266).



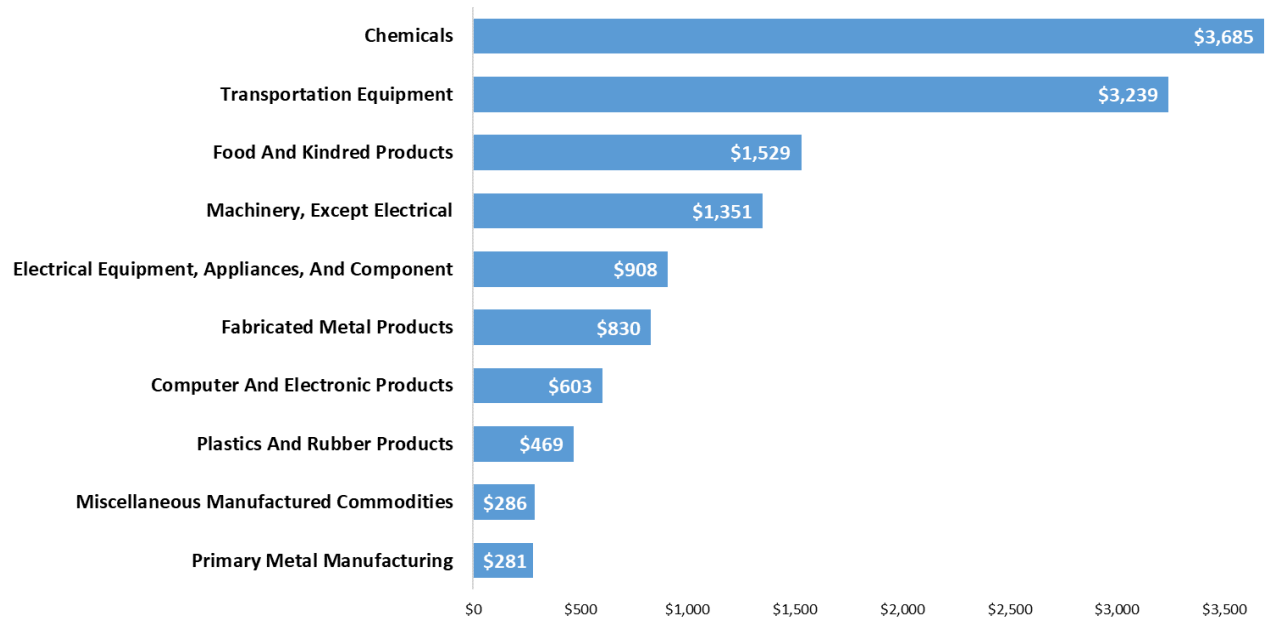
**Source:** Bureau of Labor Statistics, QCEW

## **2022 Manufacturing Exports**

Manufacturing exports totaled nearly \$14.2 billion in 2022, up from \$13.9 billion in 2021 and \$11.7 billion in 2020. Missouri's highest industry exports were *Chemical* and *Transportation Equipment Manufacturing*. The largest gain within the top ten industries was *Chemical Manufacturing*, which rose to \$3.6 billion, an 11 percent increase in 2022, adding \$377 million in sales.

## 2022 Top Ten Manufacturing Exports

in millions of dollar



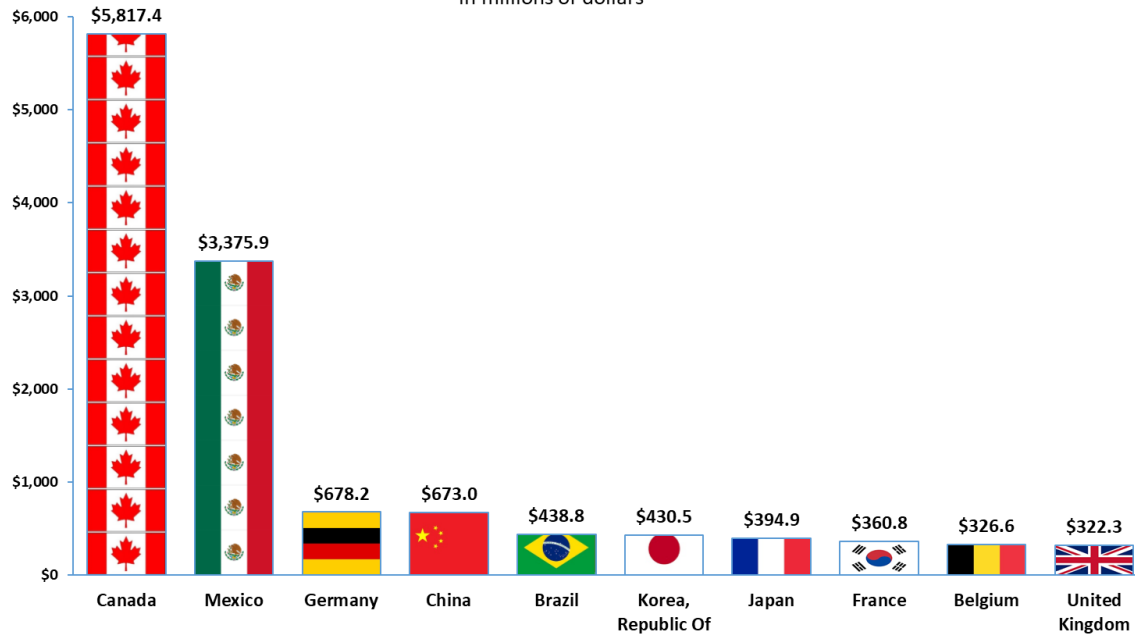
*Source: 2022 Wiser Trade*

## International Markets

Over \$16.2 billion worth of manufactured and other products were shipped to other countries through Missouri ports. The top export destinations were Canada and Mexico, followed by Germany, China, Brazil, the Republic of Korea, Japan, France, Belgium, and the United Kingdom.

## 2022 Missouri Top Country Exports

in millions of dollars



In 2022, Missouri's highest-value shipments to Canada were *Transportation Equipment*; to Mexico were *Agricultural Products*; and to Germany, Brazil, Belgium, France, China, the Republic of Korea, and the United Kingdom were *Chemicals*. Missouri's top export to Japan was *Food and Kindred Products*.

Top Missouri Exports		
Country	Export value	Primary Export
Canada	\$2,390,481,767	Transportation Equipment
Mexico	\$1,008,297,670	Agricultural Products
Germany	\$420,577,293	Chemicals
Brazil	\$288,771,268	Chemicals
Belgium	\$245,662,108	Chemicals
France	\$201,713,020	Chemicals
Japan	\$124,398,868	Food And Kindred Products
China	\$119,566,595	Chemicals
Korea, Republic of	\$69,205,787	Chemicals
U.K.	\$67,101,340	Chemicals

## Notes:

Gross State Product data was obtained from the Bureau of Economic Analysis.

Employment numbers were obtained from the Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW). Industries are classified according to North American Industry Classification System (NAICS).

Location quotients were generated for manufacturing industries using 2022 annual Bureau of Labor Statistics data.

2022 Missouri manufacturing export data were obtained from the World Institute for Strategic Economic Research (WISER) Trade database.

NAICS	Industry Description
311	Food And Kindred Products
312	Beverages And Tobacco Products
313	Textiles And Fabrics
314	Textile Mill Products
315	Apparel And Accessories
316	Leather And Allied Products
321	Wood Products
322	Paper
323	Printing, Publishing And Similar Products
324	Petroleum And Coal Products
325	Chemicals
326	Plastics And Rubber Products
327	Nonmetallic Mineral Products
331	Primary Metal Manufacturing
332	Fabricated Metal Products, Nesoi
333	Machinery, Except Electrical
334	Computer And Electronic Products
335	Electrical Equipment, Appliances, And Component
336	Transportation Equipment
337	Furniture And Fixtures
339	Miscellaneous Manufactured Commodities

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